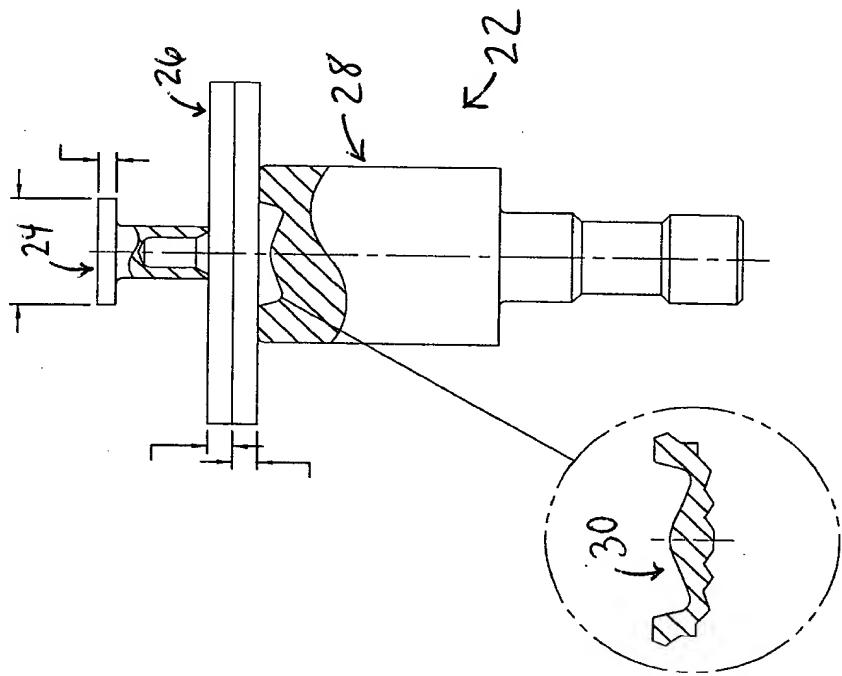


106280-5104160

FASTRIV® F.E.A. AUTOMATION
(PRE-ANALYSIS (INPUT PHASE))

FILE	EDIT	PRINT
PROJECT DEFINITION		
RIVET DEFINITION		
JOINT DEFINITION		
INSTALLATION EQUIPMENT DEFINITION		
ANVIL DEFINITION		
PLUNGER DEFINITION		
DESIGN REQUIREMENTS		
DATABASE SEARCH		
F.E.A. PARAMETERS		
POST PROCESSOR		
ANALYSIS (LIGHT "ON" OR "OFF")	20	

FIG. 2



<u>FASTRIV® F.E.A. AUTOMATION</u> <u>(PRE-ANALYSIS / PROJECT DEFINITION)</u>	
FILE	EDIT
PROJECT DEFINITION	PRINT
RIVET DEFINITION	
JOINT DEFINITION	
INSTALLATION EQUIPMENT DEFINITION	
PLUNGER DEFINITION	
DESIGN REQUIREMENTS	
DATABASE SEARCH	
F.E.A. PARAMETERS	
POST PROCESSOR	
ANALYSIS (LIGHT "ON" OR "OFF")	✓ 20
PROJECT DEFINITION:	
CUSTOMER NAME: _____	
DATE: _____	
ANALYSIS: _____	
APPLICATION DESCRIPTION: _____	
INTRODUCTION: _____	
BACKGROUND: _____	
RESULTS: _____	
CONCLUSION: _____	
PROJECT NUMBER: _____	

FIG. 3

FASTRIV® F.E.A. AUTOMATION
(PRE-ANALYSIS (RIVET DEFINITION))

FILE	EDIT	PRINT
PROJECT DEFINITION		
RIVET DEFINITION		
JOINT DEFINITION		
INSTALLATION EQUIPMENT DEFINITION		
ANVIL DEFINITION		
PLUNGER DEFINITION		
DESIGN REQUIREMENTS		
DATABASE SEARCH		
F.E.A. PARAMETERS		
POST PROCESSOR		
ANALYSIS (LIGHT ON" OR "OFF")		

PRE-ANALYSIS RIVET DEFINITION

HEAD STYLE: FLAT COUNTERSUNK HEAD
 ORDINARY OVAL HEAD
 TINMAN HEAD

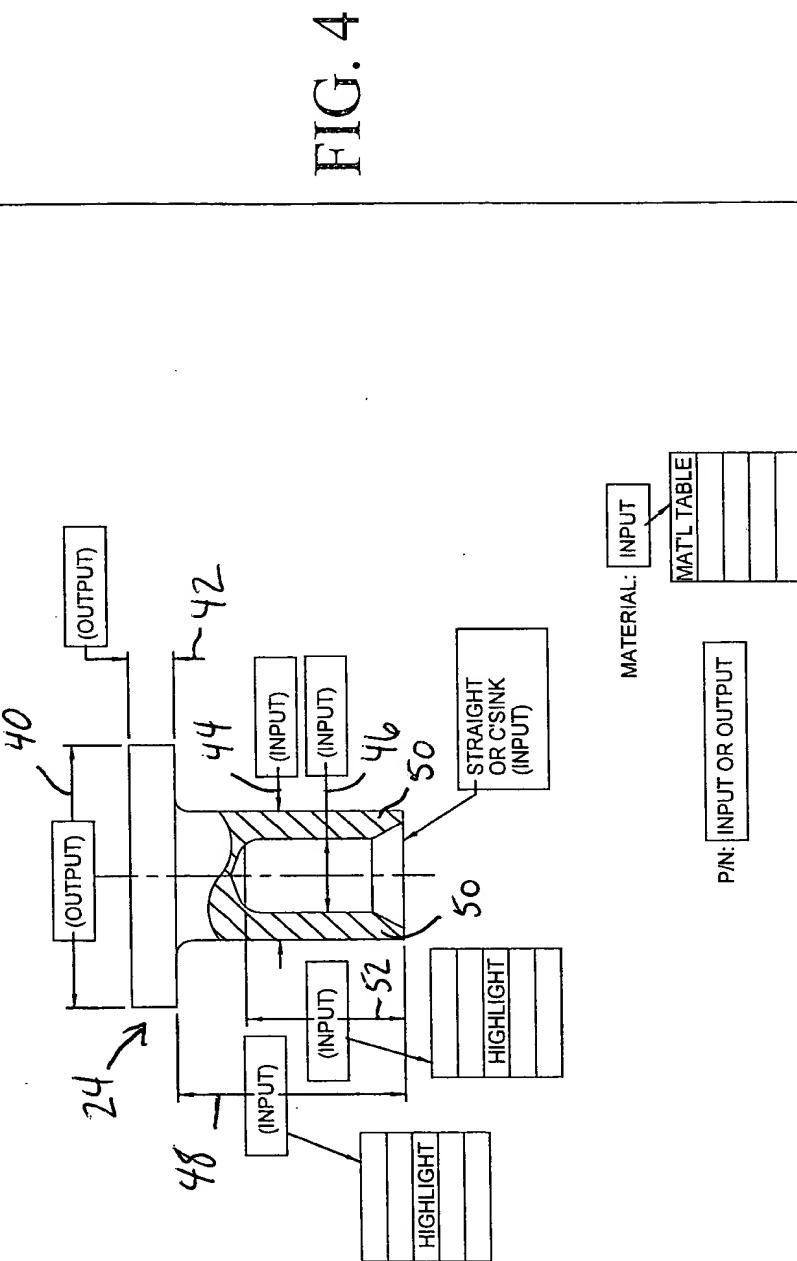
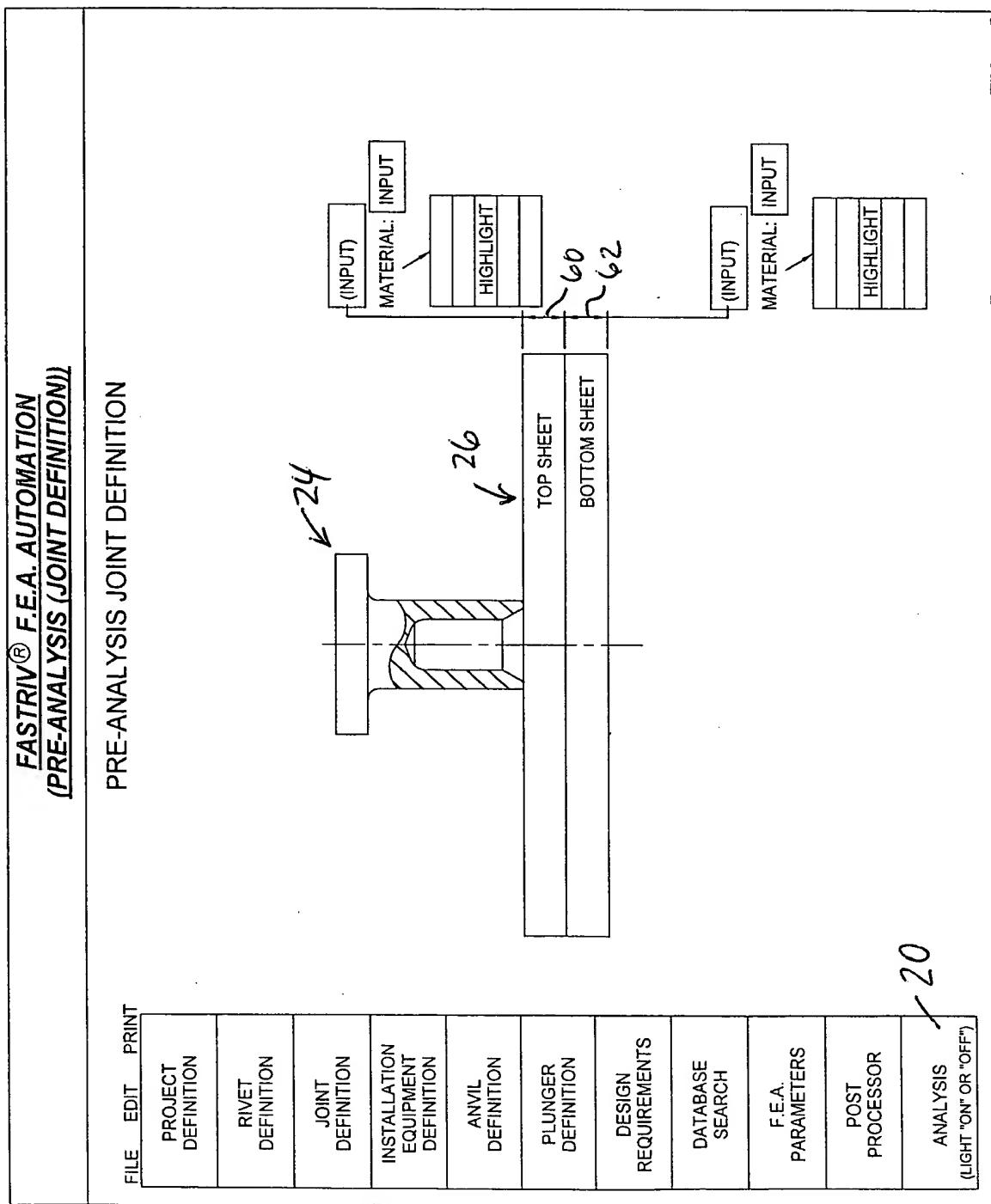


FIG. 4

20



FASTRIV® F.E.A. AUTOMATION
(PRE-ANALYSIS (INSTALLATION EQUIPMENT DEFINITION))

FILE	EDIT	PRINT	PROJECT DEFINITION	RIVET DEFINITION	JOINT DEFINITION	INSTALLATION EQUIPMENT DEFINITION	ANVIL DEFINITION	PLUNGER DEFINITION	DESIGN REQUIREMENTS	DATABASE SEARCH	F.E.A. PARAMETERS	POST PROCESSOR	ANALYSIS (LIGHT "ON" OR "OFF")

PRE-ANALYSIS INSTALLATION EQUIPMENT DEFINITION

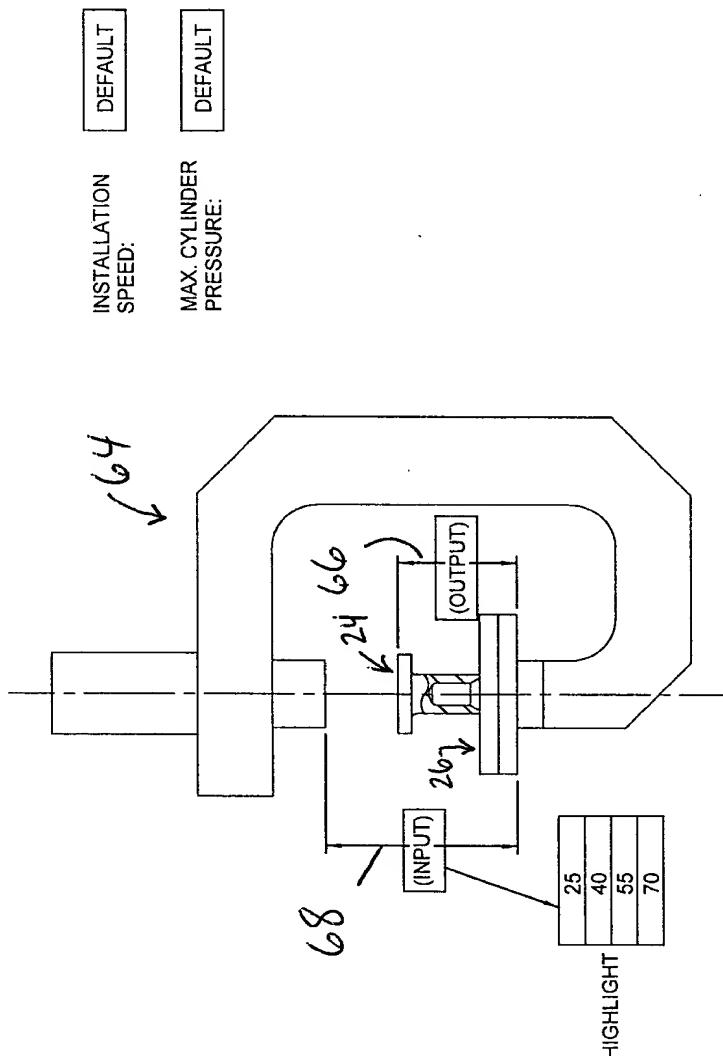


FIG. 6

20

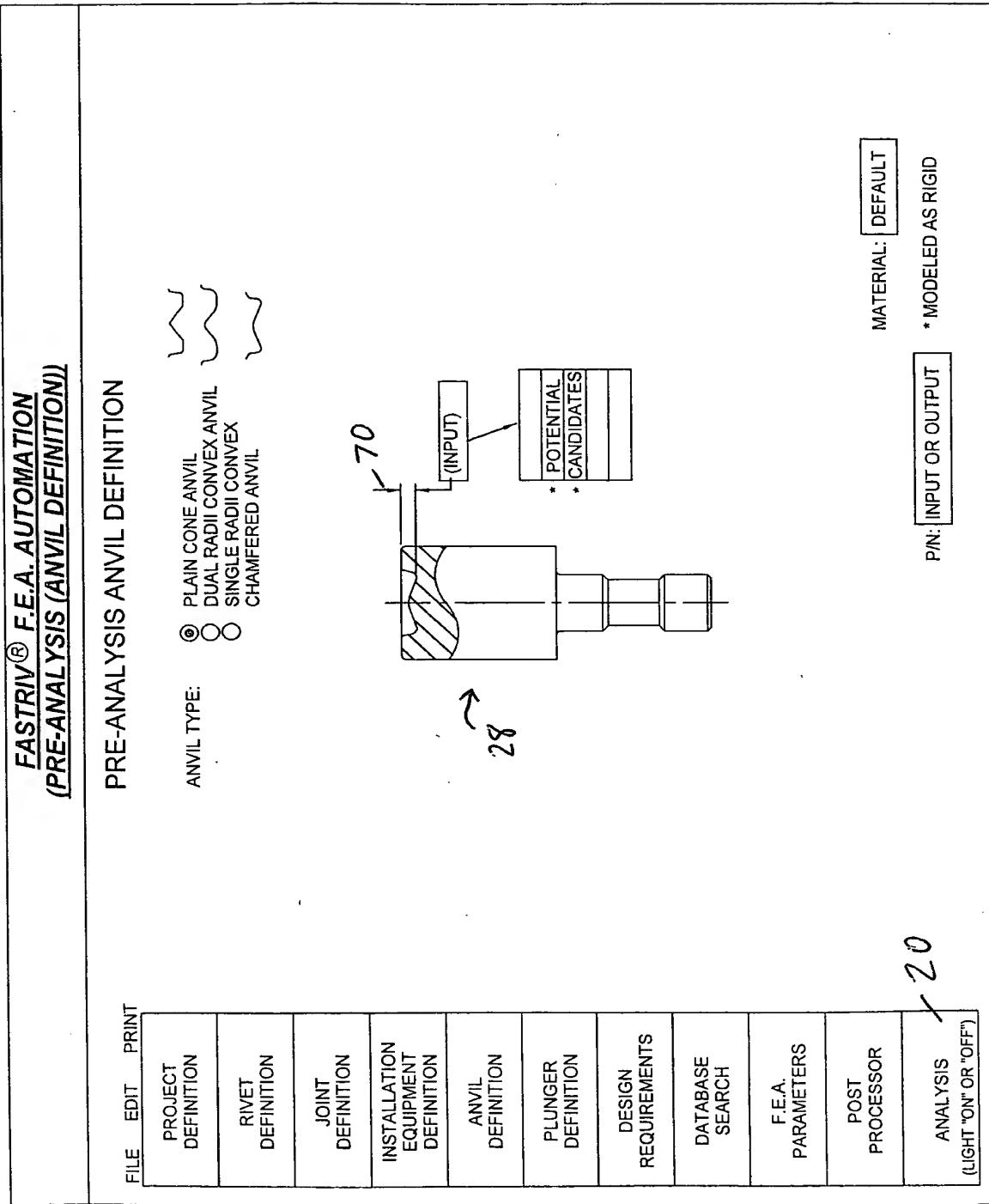


FIG. 7

100-300-470-24660

**FASTRIV® F.E.A. AUTOMATION
(PRE-ANALYSIS (PLUNGER DEFINITION))**

FILE EDIT PRINT

PROJECT DEFINITION	
RIVET DEFINITION	
JOINT DEFINITION	
INSTALLATION EQUIPMENT DEFINITION	
ANVIL DEFINITION	
PLUNGER DEFINITION	
DESIGN REQUIREMENTS	
DATABASE SEARCH	
F.E.A. PARAMETERS	
POST PROCESSOR	
ANALYSIS (LIGHT "ON" OR "OFF")	

PRE-ANALYSIS PLUNGER DEFINITION

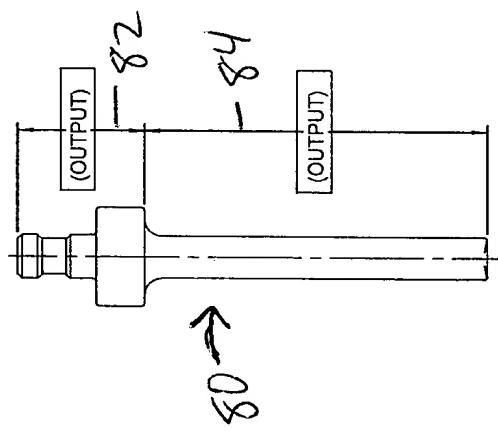


FIG. 8

MATERIAL: **DEFAULT**

* MODELED AS RIGID

20

<u>FASTRIV® F.E.A. AUTOMATION</u> <u>(PRE-ANALYSIS/DESIGN REQUIREMENTS)</u>	
FILE	EDIT
PROJECT DEFINITION	RIVETED JOINT REQUIREMENTS
RIVET DEFINITION	
JOINT DEFINITION	
INSTALLATION EQUIPMENT DEFINITION	
ANVIL DEFINITION	
PLUNGER DEFINITION	
DESIGN REQUIREMENTS	
DATABASE SEARCH	
F.E.A. PARAMETERS	
POST PROCESSOR	
ANALYSIS (LIGHT "ON" OR "OFF")	✓ 20

RIVET JOINT
STRENGTH REQUIREMENT

FIG. 9

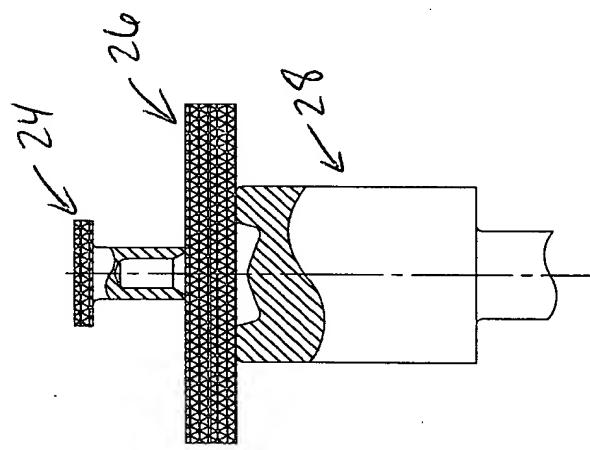
<u>FASTRIV® F.E.A. AUTOMATION</u> <u>(PRE-ANALYSIS DATABASE SEARCH)</u>	
FILE	EDIT PRINT
PROJECT DEFINITION	PRE-ANALYSIS DATABASE SEARCH
RIVET DEFINITION	THE ABILITY TO SELECT ANY OF COMBINATION OF THE INPUTS AT THIS STAGE. THIS WILL TIE INTO A CENTRAL DATABASE
JOINT DEFINITION	
INSTALLATION EQUIPMENT DEFINITION	
ANVIL DEFINITION	
PLUNGER DEFINITION	
DESIGN REQUIREMENTS	
DATABASE SEARCH	
F.E.A. PARAMETERS	
POST PROCESSOR	
ANALYSIS	(LIGHT "ON" OR "OFF")

FIG. 10

FASTRIV® F.E.A. AUTOMATION
(PRE-ANALYSIS (F.E.A. PARAMETERS))

FILE	EDIT	PRINT	
PROJECT DEFINITION			
RIVET DEFINITION			
JOINT DEFINITION			
INSTALLATION EQUIPMENT DEFINITION			
ANVIL DEFINITION			
PLUNGER DEFINITION			
DESIGN REQUIREMENTS			
DATABASE SEARCH			
F.E.A. PARAMETERS			
POST PROCESSOR			
ANALYSIS (LIGHT "ON" OR "OFF")			

PRE-ANALYSIS F.E.A. PARAMETERS

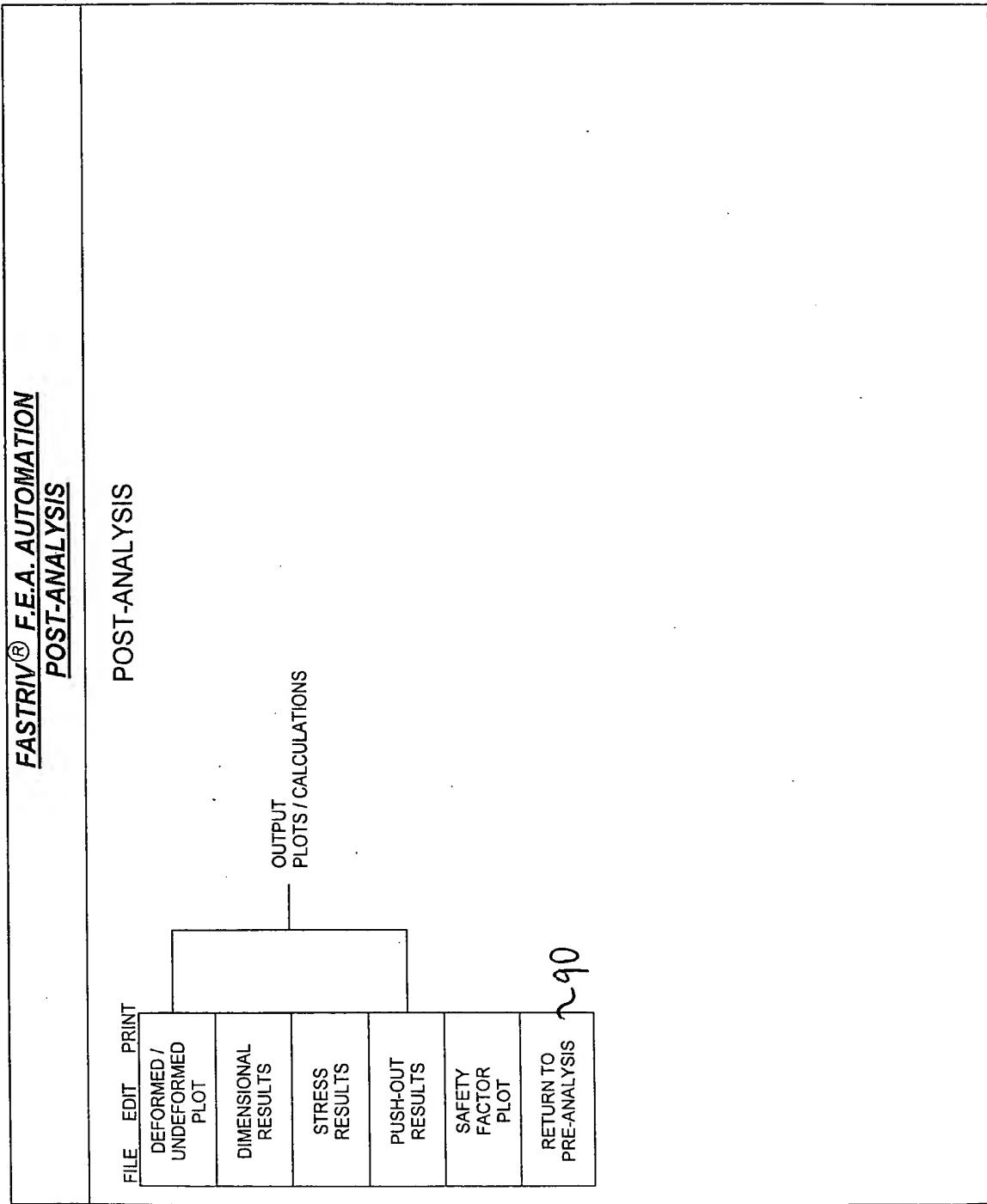


OBJECT: RIVET (MESH, BCC)
 TOP SHEET (MESH, BCC)
 BOTTOM SHEET (MESH, BCC)

ADVANCED
SETTINGS

INTEROBJECT BCC
OK

FIG. 11



Digitized by srujanika@gmail.com

FASTRIV® F.E.A. AUTOMATION POST-ANALYSIS

FILE	EDIT	PRINT
DEFORMED / UNDEFORMED PLOT	DIMENSIONAL RESULTS	STRESS RESULTS
PUSHOUT RESULTS	SAFETY FACTOR PLOT	RETURN TO PRE-ANALYSIS

DEFORMED / UNDEFORMED PLOT

The diagram illustrates a mechanical component, likely a bearing or a similar assembly, in two states: **DEFORMED** and **UNDEFORMED**.

DEFORMED State: The top part of the diagram shows the component after it has been subjected to an **OUTPUT LOAD**. The load is indicated by a horizontal arrow labeled **S.F.** (Shear Force) pointing downwards. The component exhibits significant deformation, particularly at the top interface, where the load is applied. The top surface is labeled **24** and the bottom surface is labeled **28**. The contact area is shaded with diagonal lines.

UNDEFORMED State: The bottom part of the diagram shows the component in its original, undeformed state. The top surface is labeled **24** and the bottom surface is labeled **28**. The contact area is shaded with diagonal lines.

Annotations:

- OUTPUT LOAD**: A box containing the text "OUTPUT LOAD" with an arrow pointing to the deformed state.
- S.F.**: A box containing the text "S.F." with an arrow pointing to the deformed state.
- DEFORMED**: A box containing the text "DEFORMED" with an arrow pointing to the deformed state.
- UNDEFORMED**: A box containing the text "UNDEFORMED" with an arrow pointing to the undeformed state.
- L VS. Δ**: A box containing the text "L VS. Δ" with an arrow pointing to the undeformed state.
- ZOOM CAPABILITY**: A box containing the text "* ZOOM CAPABILITY" with an arrow pointing to the top right.
- * ADD / REMOVE ANY OBJECT(S)**: A box containing the text "* ADD / REMOVE ANY OBJECT(S)" with an arrow pointing to the top right.
- * ANIMATION**: A box containing the text "* ANIMATION" with an arrow pointing to the top right.

- * ADD / REMOVE ANY OBJECT(S)
- * ANIMATION

FIG. 13

90

FASTRIV® F.E.A. AUTOMATION POST-ANALYSIS

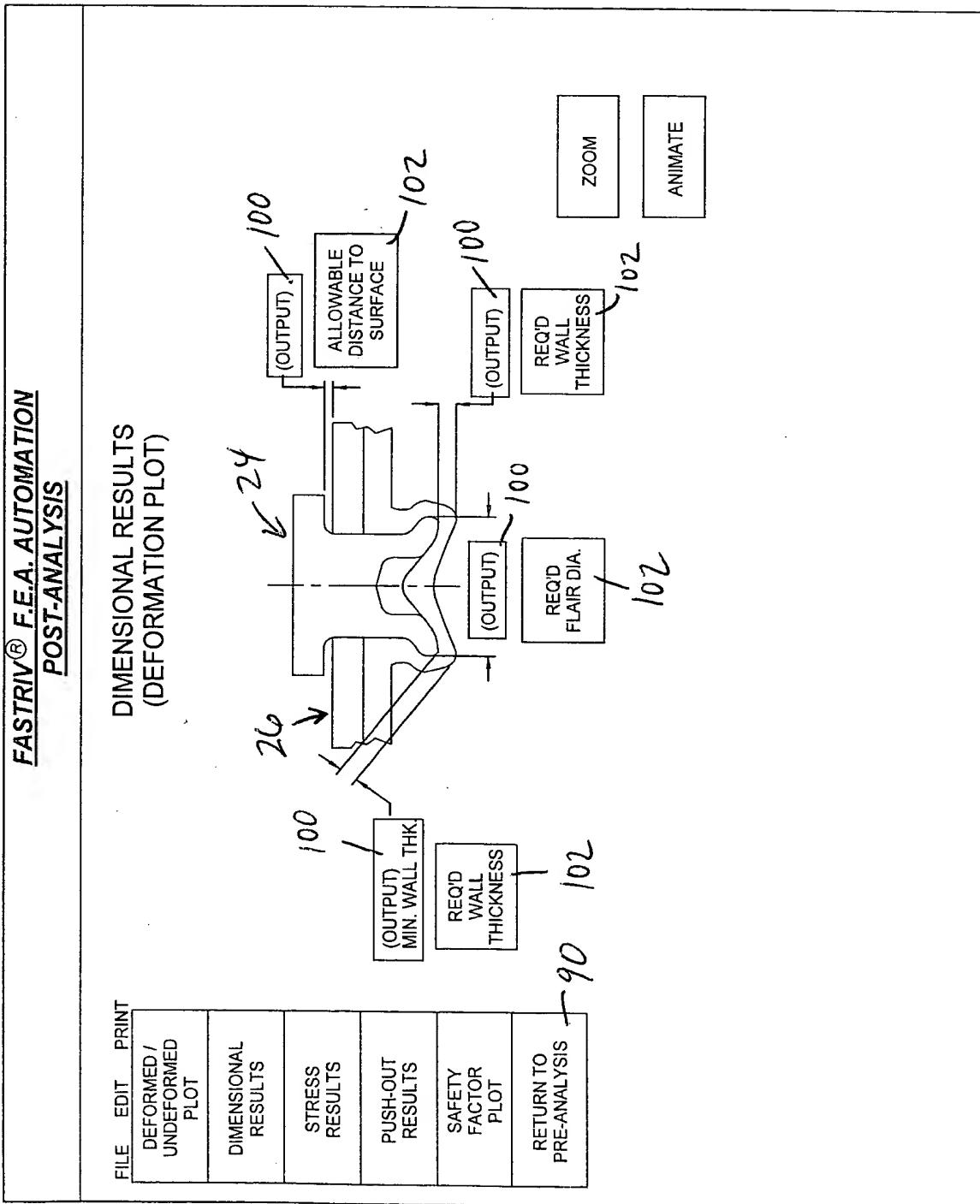
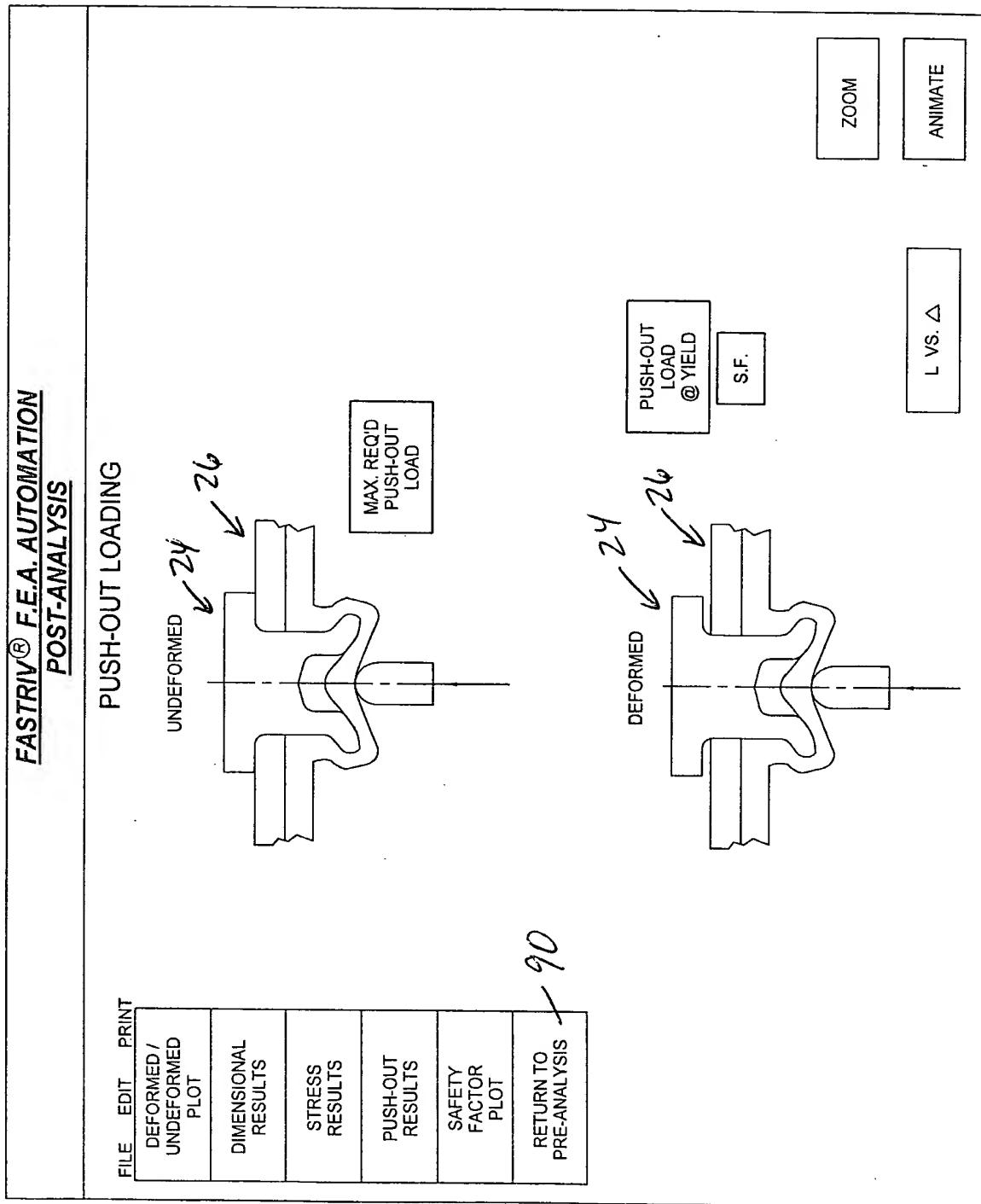


FIG. 14

105200-5424060

FIG. 16



7.06280 " 5.024650

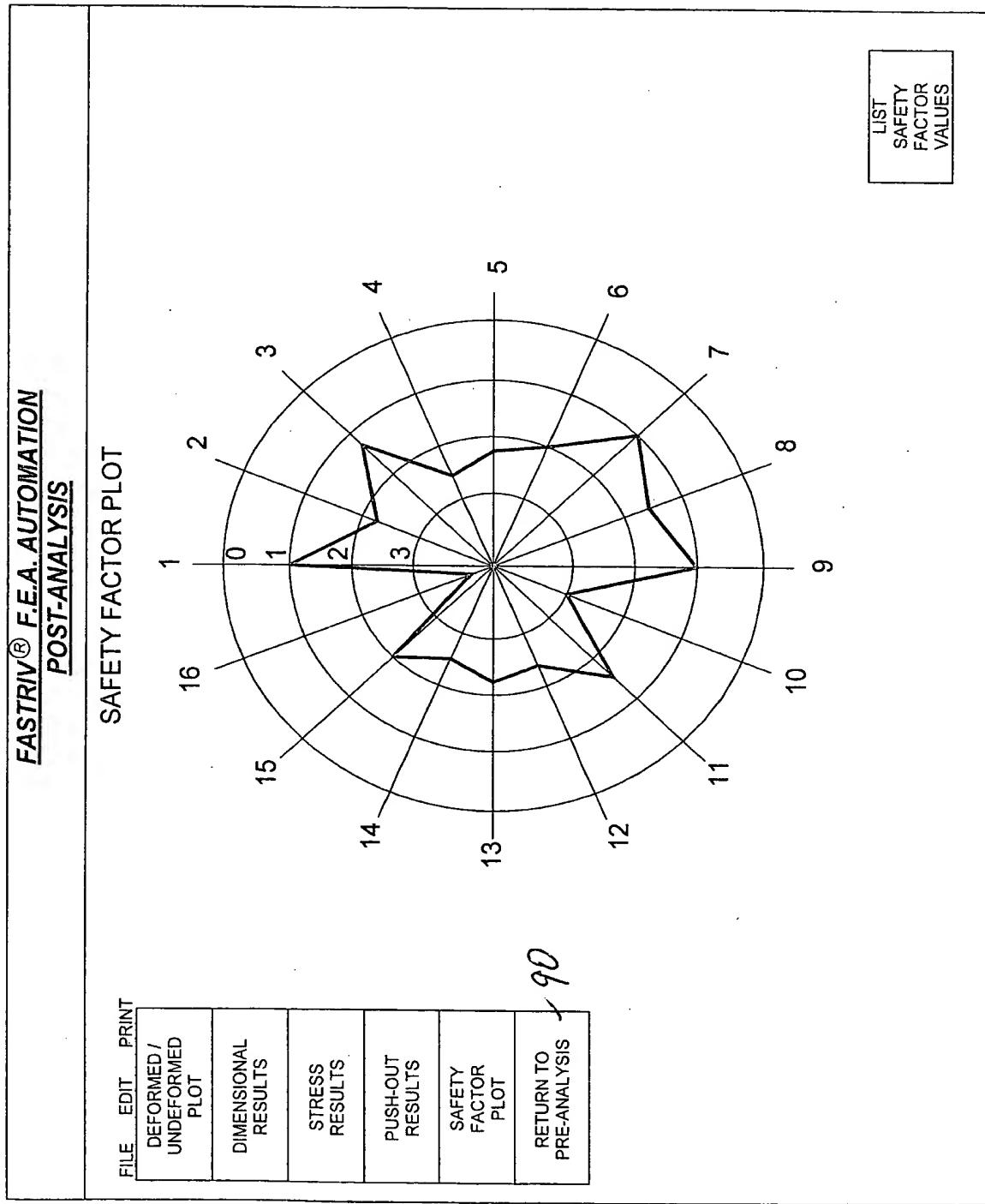


FIG. 17